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Notice of Allowability	Application No.	Applicant(s)	
	10/724,721 Examiner	SUGIYAMA ET AL.	
	David N. Spector	2873	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. This communication is responsive to <i>FAOM</i> .			
2. ☐ The allowed claim(s) is/are <u>84-97</u> .			
3. The drawings filed on <u>02 December 2003</u> are accepted by the Examiner.			
 4.			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date 1203/12-02-2003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. ☐ Notice of Informal F 6. ☐ Interview Summary Paper No./Mail Da 7. ☐ Examiner's Amenda 8. ☒ Examiner's Stateme 9. ☒ Other DETAILED A	(PTO-413), te ment/Comment ent of Reasons for Allo	owance

DETAILED ACTION - ALLOWANCE

1. Claims 84-97 are allowed. All claims thus being allowable, prosecution on the merits is closed in this application. A statement of the examiner's reasons for allowance is provided in the paragraph which follows below.

Reasons for Allowance

2. The instant invention provides a 40 Gbps optical modulator which operates with a reduced drive voltage without sacrificing its modulation bandwidth. The invention includes a signal electrode and a ground electrode disposed upon a substrate in a particular arrangement wherein the signal electrode has a base with a width **W**, and a gap of width **S** exists between the ground electrode and the signal electrode. The primary reason for allowance of the claims is the imposition, in all of the claims, of a conditional relationship **S/W** ≥ 8 between the base width of the signal electrode, and the interelectrode gap width to achieve the above-noted operational performance. The prior art taken either singly or in combination fails to anticipate or fairly suggest the limitations of applicant's independent claims, in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The claimed invention is therefore considered to be in condition for allowance as being novel and nonobvious over prior art.

Other Remarks/Information

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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4. The prior art made of record and not relied upon is considered pertinent to appli-

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cant's disclosure. Kondo et al. (US-6,4000,494-B1) discloses a high-speed traveling

wave modulator wherein 2 < S/W < 4.

5. Information regarding the status of an application may be obtained from the Pat-

ent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status informa-

tion for unpublished applications is available through Private PAIR only. For more infor-

mation about the PAIR system, see http://pair-direct.uspto.gov. Should you have ques-

tions on access to the Private PAIR system, contact the Electronic Business Center

(EBC) at 866-217-9197 (toll-free).

6. Any other inquiry concerning this communication or earlier communications from

the examiner should be directed to David N. Spector whose telephone number is (571)

272-2338. The examiner can normally be reached at this number Monday through Fri-

day between 6:00 AM and 2:30 PM. The fax number for the organization where this ap-

plication is assigned is (703) 872-9306.

September 24, 2004

DAVID N. SPECTOR

PRIMARY EXAMINER